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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,197	12/16/2003	Frederic P. Field	D0188.70170US02	5833
23628	7590 11/29/2006		EXAMINER	
WOLF GREENFIELD & SACKS, PC			FOSTER, MARLEE CHRISTINE	
FEDERAL RESERVE PLAZA			ART UNIT	PAPER NUMBER
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BOSTON, MA 02210-2206			3731	

DATE MAILED: 11/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/737,197	FIELD ET AL.				
		Examiner	Art Unit				
		Marlee C. Foster	3731				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 35 SIX (6) MONTHS from the mailing date of this communic period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS CON 7 CFR 1.136(a). In no event, howeve ation. ry period will apply and will expire SIX by statute, cause the application to be	IMUNICATION. r, may a reply be timely filed ((6) MONTHS from the mailing date of this ecome ABANDONED (35 U.S.C. § 133).				
Status							
2a)□	Responsive to communication(s) filed of This action is FINAL . 2b). Since this application is in condition for closed in accordance with the practice of	oxtimes This action is non-final. allowance except for form	al matters, prosecution as to t	he merits is			
Dispositi	on of Claims			•			
5)□ 6)⊠ 7)□	Claim(s) 1-11,13-20,39 and 40 is/are per 4a) Of the above claim(s) is/are ver Claim(s) is/are allowed. Claim(s) 1-11,13-20,39 and 40 is/are recommodate claim(s) is/are objected to. Claim(s) are subject to restriction	vithdrawn from considerati					
Applicati	on Papers						
10)⊠	The specification is objected to by the E The drawing(s) filed on <u>16 March 2005</u> i Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	s/are: a)⊠ accepted or b n to the drawing(s) be held in e correction is required if the o	abeyance. See 37 CFR 1.85(a). drawing(s) is objected to. See 37	CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)		•				
1) Notice 2) Notice 3) Inform	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO/SB/08) the No(s)/Mail Date 07/08/2005.	-948) Pa	terview Summary (PTO-413) aper No(s)/Mail Date otice of Informal Patent Application ther:				

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of apparatus claims 1-11 and 13-20 in the reply filed on 10 October 2006 is acknowledged. Claim 38 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Accordingly, claims 1-11, 13-20, and 39-40 are pending in the application.

Information Disclosure Statement

2. Applicant should note that the large number of references in the attached IDS have been considered by the examiner in the same manner as other documents in Office search files are considered by the examiner while conducting a search of the prior art in a proper field of search. See MPEP 609.05(b). Applicant is requested to point out any particular references in the IDS which they believe may be of particular relevance to the instant claimed invention in response to this office action.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the

unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-11 and 13-20 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-24 of copending Application No. 10/352,6000. Although the conflicting claims are not identical, they are not patentably distinct from each other because the applications are claiming a suturing instrument comprising a means for driving deformable suture wire through a curved portion of a first channel with a wire advancing actuator, bending the suture wire in the curved portion such that, upon exiting the instrument, it follows a

Art Unit: 3731

curved trajectory in a curved surface in the first and second channel, cutting the suture wire to separate the trailing end from the remaining suture wire using the cutting bar and bending the leading and trailing ends inward with cutting bar towards the center of the wire.

Page 4

This is a <u>provisional</u> obviousness-type double patenting rejection.

- 5. Claims 1-11 and 13-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-33 of U.S. Patent No. 7,131,979. Although the conflicting claims are not identical, they are not patentably distinct from each other because the applications are claiming a suturing instrument comprising a means for driving deformable suture wire through a curved portion of a first channel, bending the suture wire in the curved portion such that, upon exiting the instrument, it follows a curved trajectory in a curved surface in the first and second channel to form a wire loop suture, receiving the leading end in a second channel, cutting the suture wire to separate the trailing end from the remaining suture wire using the cutting bar, and bending the leading and trailing ends inward with a cutting bar towards the center of the wire.
- 6. Claims 1-11 and 13-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-23 of U.S. Patent No. 6,511,489. Although the conflicting claims are not identical, they are not patentably distinct from each other because the patent and the instant application are claiming the

Application/Control Number: 10/737,197 Page 5

Art Unit: 3731

following common subject matter a suturing instrument comprising a handle, a shaft, a channel adapted to hold a suture wire and bend it into a wire loop suture and a passageway intersecting the first and second island, adapted to guide the suture wire and support the cutting bar, which cuts the suture wire to a sharp point.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-7, 10, 16, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Caspari et al. (U.S. Patent 4,890,615). Caspari et al. disclose a suturing instrument comprising a handle (24 and 26), a shaft (36) having a proximal and distal end, a first and second island, a first channel (60) adapted to guide suture wire so as to form a loop upon exiting the opening, a second channel (66) adapted to receive suture wire after the suture wire has exited the opening, a wire drive (68) adapted to move the suture wire, and a cutter adapted to cut the suture wire so as to free the wire loop suture

Application/Control Number: 10/737,197 Page 6

Art Unit: 3731

from suture wire remaining in the instrument and bend each end of the wire loop suture around the first and second island. Regarding claims 2 and 3, the cutter (58) is further adapted to direct the wire loop suture away from the first and second channels in a lateral direction. The second channel has a curved surface adapted to contact the suture wire (figure 3). Regarding claim 4, the distal end has a recess adapted to receive the material to be sutured. The projections of the distal end are adapted to engage the material being sutured. The handles activate the wire cutter, and the cutter cuts the suture wire at an angle to form a point. Regarding claim 10, Caspari et al. disclose the material to be sutured is tissue (col. 2, line 57).

9. Claims 39 and 40 rejected under 35 U.S.C. 102(b) as being anticipated by Schulken et al. (U.S. Patent 5,499,990). Schulken et al. disclose a means for driving deformable suture wire through the curved portion of a first channel, a means for bending the suture wire in the curved portion such that upon exiting a distal end of the instrument so that a leading end of the wire follows a curved trajectory by moving the wire through a channel, a means for receiving the leading end in a second channel at the distal end as the suture wire returns (col. 5, lines 18-26), and a means for cutting the suture wire to separate the trailing end of the wire loop suture remaining in the suture instrument a severing mechanism (45). Schulken et al. additionally disclose a means for bending the two ends toward a center of the wire loop suture moving it through a guide channel (col. 8, lines 14-36).

Application/Control Number: 10/737,197 Page 7

Art Unit: 3731

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 12. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 13. Claims 8, 9, 11, 13, 14, 15, 17, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caspari et al. (U.S. Patent 4,890,615) in view of Schulken et al. (U.S. Patent 5,499,990). Caspari et al disclose a suturing instrument comprising a

Application/Control Number: 10/737,197

Art Unit: 3731

handle, a shaft, a first and second channel, a wire drive, and a cutter. However Caspari et al. fail to disclose a cutting face, a relief face, and an ejection ramp face adapted to move the wire loop suture through a passageway and away from the first and second channels in a lateral direction. Caspari et al. additionally fail to teach a wire supply cartridge on the device.

- 14. Regarding claim 8, Schulken et al. teach a cutting face, a relief face, and an ejection ramp face adapted for directing the wire loop suture away from the first and second channels in a lateral direction. These different structures act to move the wire through a guide channel (col. 9, lines 12-57). Regarding claim 9, Schulken et al. teach an ejection push face to direction the wire loop suture away from the first and second channels. Schulken et al. teach this prevents kinking of the suture wire.
- 15. Regarding claim 13, the passageway (8, also 64 of figure 6b) of Schulken et al. is disposed between the islands of the device. Regarding claims 14 and 17, the device of Schulken et al. has a geometry of the first and second channels that aids in retaining the suture wire after it has been cut and bent (col. 3, lines 60-64 and see figure 3a).
- 16. Regarding claim 15, the wire drive advances a predetermined length of suture (col. 3, lines 7-15). Regarding claim 20, a wire supply cartridge is provided (col. 3, lines 17-20).
- 17. The features of Schulken et al. teach the geometry of using the instrument to effectively cut and bend wires while preventing kinking and allowing the application of several sutures during a procedure. Therefore, it would have been obvious to one of ordinary skill in the arty to combine the devices of Caspari et al. and Schulken et al. to

Application/Control Number: 10/737,197

Art Unit: 3731

improve the advancement by bending and cutting of the wire within the suturing instrument.

18. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Caspari et al. (U.S. Patent 4,890,615) in view of Kortenbach et al. (U.S. Patent 5,814,054). Caspari et al. disclose the device substantially as claimed, but fail to disclose a wire supply cartridge within the device. Kortenbach et al. teach a removable handle and needle on a suturing instrument (col.1, lines 54-65). This allows for accommodation of various sizes of needles on the instrument. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Caspari to accommodate different size needles and functions by allowing the shaft to be removable on the device.

Conclusion

19. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Caspari et al. (U.S. Patent 5,522,820) discloses a device with similar features.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marlee C. Foster whose telephone number is (571) 272-5072. The examiner can normally be reached on Monday to Friday 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan Nguyen can be reached on (571) 272-4963. The fax phone

Page 10

Application/Control Number: 10/737,197

Art Unit: 3731

273-8300.

number for the organization where this application or proceeding is assigned is 571-

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MCF

Monla Colotta

ANHTUANT. NGUYEN SUPERVISORY PATENT EXAMINER

11/27/06